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Purchase Order Receipt Listing

Friday, January 13, 2017 10:21:35 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO34793 All Receipt Dates All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

	Keterence/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name	VU-TWM001 TW	TW Metals							
PO34793 1	M304TR0.500W.035 f	.035 f	1/12/2017	1/11/2017	20.0000		0.0000	C	00 03
No	304 RD Tube .500 x .035W	0 x f	24.0000	PLOU01			0.0000	0	
	m136569								
2	M304TR0.500W,049 f	.049 f	1/12/2017	1/11/2017	80.0000		00000	c	00 03
No	304 RD Tube .500 x .049W	0x f	84.0000	PLOU01			0.0000	0	00.06
3	M4130NT0.750W.04 f	V.04 f	1/12/2017	1/11/2017	23.9170		0.0000	0	\$0.00
No	4130 RD Tube .750 x.049W m136569	50 f	20.0000	PLOU01			0.0000	0	
4	M4130NT0.750W.08 f	7 V.08 f	1/12/2017	1/11/2017	19.5830		0.0000	0	\$0.00
No	4130 RD Tube .750 x.083W m136569	50 f	20.0000	PLOU01			0.0000	0	
S	M4130NT1.000W.12 f	V.12 f	1/12/2017	1/11/2017	24.0000		0.0000	0	\$0.00
Š	4130 RD Tube 1.00 x f .120wall m136569	00 x f	20.000	PLOU01			0.0000	0	
9	M6061T6T1.000W06 f 5	W06 f	1/12/2017	1/11/2017	24.0000		0.0000	0	\$0.00
No	6061T6 RD TUBE 1.00 x .065w m136569	E	20.0000	PLOU01			0.0000	0	
7	71401-45		1/12/2017	1/11/2017	1.0000		00000	c	90 03
No	PROCUREMENT QUALITY CLAUSES m136569	SES	1.0000	PLOU01			0.0000	0 0	\$0.00

Book Amt	
MRB Qty/ MRB Reject Qty	
Inspected Qty/ Rejected Qty N (PO U/M)	
Cost Per Unit/ Recv Value	
Recv Qty (PO U/M)	
Recv Date/ Recv Emp	
Required Date Required Qty	
PO U/M / Stock U/M	
Reference/ Description/ Cert Std	
Project ID	
Line Nbr/ Insp Req	
Purchase Order ID/ Curr Type	

Total Received Quantity:	192.5000
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$0.00
Total Balance Due Quantity:	0.0000

Purchase Order Receipt Listing

Page 2 of 2



DART AEROSPACE LTD

1270 ABERDEEN ST



### Packing Slip

ORDER NO.: 60622788 FROM: CRAN PAGE 1

SOLD TO:

CANADA

CUST NUMBER: 1203820 NET WGT:

75.170 REO.DATE: 01/12/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

TERMS: F.O.B.:

HAWKESBURY ON

DONNA SMALLEY NET 30 DAYS

CN K6A 1K7

SHIPPING POINT CUST ORD NO.: P034793

SHIP BY: VIA:

01/06/17 COMMON CARRIER

FREIGHT:

PREPAID

RELEASE NO.:

RECEIVING PHONE:

LINE ITEM DESCRIPTION

0001 36449 SMLS CD 304/L A269 1/2 OD X .035 WA

WIDTH

LENGTH 20' ML

CLN# ORD QTY INVOICE QTY SHI

SHIPPED QTY 20.000 FT

3,475

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00 PO:49348005 HT:YX1511521 PC: 1 CUSTOMER QTY: 20.000 UOM FT MLT:CHINA MFG:CHINA SLB/CL:7-64

0002 36506 SMLS CD 304/L A269 1/2 OD X .049 WA

WT

PCS

CLN#

80.000 FT

ORD QTY INVOICE QTY SHIPPED QTY 80.000 FT 80.000 FT

18.874

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00 PO:49339077 HT YX1506712 PC: 4 CUSTOMER QTY: 80.000 UOM FT MLT:CHINA SLB/CL:9-116

0003 33047 CDS 130 6736 3/4 X .049

CLN# ORD QTY INVOICE QTY SHIPPED QTY 20.000 FT 23.917 FT 23.917

23.917 FT L

PCS

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00 PO:49353474 HT:598618 PC: 1 CUSTOMER QTY: 23.917 UOM FT MLT:GERMANY MFG:GERMANY SLB/CL:1625993

http://www.twmetals.com/invoice-terms.html





### Packing Slip

ORDER NO.: 60622788 FROM: CRAN

PAGE 2

SOLD TO:

CANADA

CUST NUMBER: 1203820 NET WGT:

DART AEROSPACE LTD

1270 ABERDEEN ST

75.170 REO.DATE: 01/12/17 CONFIRMED

01/06/17

SHIP TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

TERMS: F.O.B.:

CUST ORD NO .:

HAWKESBURY ON

DONNA SMALLEY

NET 30 DAYS

CN K6A 1K7

SHIPPING POINT

P0347/93

SHIP BY:

VIA:

COMMON CARRIER

FREIGHT: PREPAID

RELEASE NO.:

RECEIVING PHONE:

WIDTH

0004 33096 SMLS CD 4130 6736 3/4 OD X .083 WA

LENGTH 17/24 FT

CLN#

ORD OTY 20.000 FT

LINE ITEM DESCRIPTION

INVOICE QTY SHIPPED QTY 19.583 FT 19.583 19.583 FT

11.578

1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00 PO:49316335 HT:587359 PC: 1 CUSTOMER QTY: 19.583 UOM FT MLT:GERMANY SLB/CL:1600427

17/24 FT

CLN#

ORD QTY 20.000 FT INVOICE QTY 24.000 FT

SHIPPED QTY / 24.000 FT

WT 27.072

PCS

1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REOUIRED \*\*

0005 33364 SMLS CD 4130 RD 6736 1 X .120

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00 PO:49354259 HT MM16101444 PC: 1 CUSTOMER QTY: 24.000 UOM FT MLT:UNITED STATES MFG:UNITED STATES SLB/CL:143275

CLN#

0006 43284 D6061-T6 1 OD X .065 WA

ORD QTY 20,000 FT

INVOICE QTY 24.000 FT SHIPPED OTY 24.000 FT

WT 5.400

12 FT ML

PCS

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REOUIRED \*\*

ECCN: EAR99

PO: 49295465 HT: 17800951

MEE: UNITED STATES

PO:49321087 HT:F001758730001 PC: 1

Expiration Date: 0/00/00 Export License: NLR Expiration Date: 0/00/00 951 PC: 1 CUSTOMER OTY: 12.000 UOM FT

SLB/CL:1000333483

CUSTOMER OTY: SLB/CL:672356

12.000 UOM FT

1

MLT:UNITED STATES MFG:UNITED STATES

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE THANK YOU FOR THIS ORDER PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





### **Packing** Slip

ORDER NO.: 60622788 FROM: CRAN PAGE 3

75.170 REQ.DATE: 01/12/17 CONFIRMED

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

CANADA

CN K6A 1K7

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA CN K6A 1K7

TERMS:

SALESPERSON: DONNA SMALLEY NET 30 DAYS

F.O.B.:

SHIPPING POINT

CUST ORD NO.: PO34793

LINE ITEM DESCRIPTION

SHIP BY:

SHIP TO:

VIA:

01/06/17

FREIGHT:

COMMON CARRIER PREPAID

RELEASE NO.:

RECEIVING PHONE:

WIDTH

LENGTH

BROKERS KUEHNE AND NAGEL LTD

TYPE OF PKG

DOUBLE CARTON

1.000 83.000

----- PACK INFO -----PKGS GRS WEIGHT WIDTH LENGTH HGHT

24.5000

1.000 83.000

BY: WN RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

1

DATE FILLED





### **Packing** Slip

ORDER NO.: 60622788

FROM: CRAN

PAGE 4

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

CANADA

CN K6A 1K7

SALESPERSON:

TERMS:

F.O.B.:

CUST ORD NO.: VIA:

FREIGHT:

RELEASE NO.: RECEIVING PHONE:

DONNA SMALLEY NET 30 DAYS

SHIPPING POINT PO34793

COMMON CARRIER

PREPAID

75.170 REO.DATE: 01/12/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SHIP BY:

01/06/17

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

### "CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

Date: 1/05/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

### MILL TEST REPORT

Purchaser.: TW MET	ALS-Cranbu	гу			Certificate	No.: 2016-8-6	7			
Contract No.: TWM I	O.No.: M49	348005			Date of Issu	e.: 2016.8.10				
Commodity: Stainless	Steel Seamle	ess Tubes	Specifi	cations:	ASTM A213-	15c/ASME SA	1213	-15/ASTM	A269-15	EAW
Process: Cold Drawn				-	Delivery Co	ndition: OD	Potis	hed to 240	Grit	
Steel Grade	Heat !	Number	Lot		Dimensio	· ma		Q	uantity	
Ster Grade	Ticat	Tunibei	Numb	er	Dimensi	outs	14	Pieces	I	eet
TP304/TP304L	YX15	511-521	7-64		(/2"x0.035	"x20 <sup>A</sup>		500	10	,000
		Ch	emical C	ompositi	ion by Weigh	t (%)				
Element	C	Mn	P	S	Si	Cr		Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.04	5   ≤0.0	30 ≤1.00	18.00-20.00	8.6	00-12.00	-	-
Ladle Analysis	0.018	1.25	0.029	0.00	0.39	18.40		8.05	-	
Product Analysis	0.020	1.22	0.032	0.00	2 0.38	18.38		8.43		-
			Me	chanical	Properties					
Test Item	Elongs	ation (% in 2	")	Tei	nsile Strength Rm	(PSI)	Yield Strength (PSI) Rp / 0.2%			PSI)
Requirements		≥35			≥75,000		≥30,000			
Test Results		61/62			98,000/99,00	00			00/45,000	
Test Item		on of Area (%)	Har	dness	Cold Bend Test	Flaring Test	Fla	attening Test	Flange Test	P.M.I Test
Requirements			HR	B≤80	-	22%	(	=0.09	1	-
Test Results		-	7	7/79	-	Passed	1	Passed	-	OK
Test Item	Eddy Cu	rrent Test		Air rwater	Ultrasonic 'Test	Intergranu Corrosion T		Macro	scopic In	spection
Requirements	ASTN	1 E 426		-	-	ASTM A26	2 E	End Cut	Appe	earance
Test Results	Pa	ssed		-	-	OK		OK	(	OK

ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

PED Certified by SZUTEST 2195-PED-1526002

### Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

Junes Chi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.

DAS

14

9-89

No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China



### MILL TEST REPORT

Purchaser.: TW MET.	ALS-Carol S	tream			Certificate	No.: 15-11-18	I			
Contract No.: TWM P	.O.No.: M49	339077			Date of Issu	e.: 2015.11.7				
Commodity: Stainless	Steel Seamle	ess Tubes	Specifica	tions:	ASTM A213-	NASME SA	213-	13/ASTM	A269-14e	EAW
Process: Cold Drawn			-	-		ondition: OD I	_		400	
Steel Grade	Heat	Number	Lot		Dimensi				Quantity	-
		>	Number		Differen	URS .		Pieces		Feet
TP304/TP304L	YXI	506-712	9-116	(	1/2" x 0.049	" x 20"		1000	20	0,000
		_ c	nemical Co	mpositi	on by Weigh	t (%)				
Element	С	Mn	P	S	Si	Cr		Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.0	30 ≤1.00	18.00-20.00	8.	00-12.00	-	
Ladle Analysis	0.013	0.65	0.032	0.00	2 0.32	18.28		8.05	-	-
Product Analysis	0.017	0.61	0.033	0.00	2 0.28	18.31		8.55	-	
		4	Mech	anical I	Properties					
Test Item	Elonga	ation (% in 2	(")	Ter	Tensile Strength (PSI) Rm				trength (I	PSI)
Requirements		≥35			≥75,000		≥30,000			
Test Results		63/64			91,000/92,00			36,000/37,000		)
Test Item		on of Area (%)	Hardness		Cold Bend Test	Flaring Test	F	attening Test	Flange Test	P.M.I Test
Requirements		-	HRB≤80		-	22%		=0.09	-	-
Test Results		•	76/7	8		Passed	]	Passed	-	OK
Test Item	Eddy Cu	rrent Test	Air Unde Pressure		Ultrasonic Test	Intergranul Corrosion T		Macro	scopic In	pection
Requirements	ASTN	I E 426	-			ASTM A262	-	End Cut	Appe	агалсе
Test Results	Pas	sed	-		-	OK		OK		OK

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

### Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)

(5) In Compliance with EN 10204-3.1

(6) In Compliance with RoHS Stipulation

(7) No weld repair performed

- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA

17/01/12

By:

14

9-89

James Ch.

We hereby certify that this report is true and correct.

James Shi / Manager Quality Control Department

Shanghai Pufa Stainless Steel Pipe Factory
No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

TW METALS

T DEC 0 3 15 0

T ACCEPTED BY

Benteler Steel/Tube GmbH 33043 Paderborn Postfach 13 40

Tel.: +49.5254.81-0 Fax: +49.5254.13666

BENTELER 🛡

Steel/Tube

(DIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TUEV NORD CERT) (PED 2014/68/EU CERTIFIED BY TUEY NORD SYSTEMS) Blatt: Page: Steelmaking process: ELECTRIC FURNACE Procédé d'élaboration de l'acier: FOUR ELECTRIQUE ELEKTROSTAHL ×× Warmrohrwerk/Zieherei Stamp of the inspection representative: Stempel des Abnahmebeauftragten: Stahlerschmelzungsverfahren: Marque du producteur: Manufacturer's brand: Poinçon du contrôleur: Steelmaking process: Herstellerzeichen: No. du certificat: Inspection No.: Manufacturer: Producteur: Hersteller: Prüf-Nr.: 46004384 TW M49353474 41-961797/001/P NAHTLOSE STAHLROHRE SEAMLESS STEEL TUBES TUBES D' ACIER SANS SOUDURE 4170922 1625993 No. de commande du client; No. de commande Benteler: No. d'avis d'expédition: Benteler Auftrags-Nr.: Versandanzeigen-Nr.: Purchase Order No.: Kunden-Bestell-Nr.: Benteler Order No.: Dispatch Note No.: Dokument-Nr.: Document No.: Produkt: Product: **Produit:** Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschlund ABNAHMEPRÜFZEUGNIS EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 The Aboretum, Suite 204 760 Constitution Drive EXTON PA 19341 USA Lieferbedingungen: EN 10204:2005-01 TW Metals

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M, AMS 2301K

Dimensions-tolerances: Dimensions-tolérances:

Maße - Toleranzen:

Conditions de livraison:

ferms of delivery:

**GRADE 4130** 

AMS 2253E-83, Aircraft Type, Seamless, Cold Finished

14

Stahlsorte: Steel grade:

Lieferzustand: Nuance d'acier:

Condition N

Delivery condition:

État de livraison:

Produktkennzeichnung:

FSD: BENTELER AMS6360M-AMS-T-6736 B 1-MIL-T-6736 B 1-AMS 2301K 4130 Condition N HEAT-NO,

CD AQ S DIMENSIONS WA GERMANY

Marquage du produit:

Product marking:

AEZ = Aztrintebeschriftung, Etching ink marking, Gravura à l'encre . FK = Farbstronzeichnung, color marking, marquage par couleur . FS = Farbschabkonlerung, paint stencilling, marquage par peinture . FSD = Farbschankerung, color marking, marquage par couleur . FS = Prégestempel, de stamp, marquage par poinçonnage . TS = Tintenstrahlkennzeichnung, ink jet spray marking, marquage sur eliquette . FS = Prégestempel, de stamp, marquage par poinçonnage . TS = Tintenstrahlkennzeichnung, ink jet spray marking, imprimante à jet

EMC OE F TW METALS E OCT - 3 2016 ACCEPTED BENTELER

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland

Steel/Tube

Longueurs multiples Vielfachlängen 4 Multiple lengths 21 Blatt: Page: Pression d'épreuve Série de no. des tubes Rohr-Nr.-Gruppe Tube number group Test pressure Schmelzen-Nr. Prüfdruck Inspection No.: No. du certificat: Prüf-Nr.: No. de coulée 598618 Heat No. 41-961797/001/P Gewicht Weight 1345 Poids Ps Gesamtlänge Longueur totale Length total 3688,32 feet Dokument-Nr.: Document No.: No. du document: Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%] feet ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 0.750" O.D. \* 0.049" WT Tel.: +49,5254.81-0 Fax: +49,5254.13666 20 FT - 24 FT Dimensions Dimensions Maße Stück Number Nombre 0003 154 Pos. Poste

Schmelzen-Nr.	O	SI	NN	Ь	S	CR	MO	Z	20	
Heat No.										
No, de coulée										
598618	0,310	0,260	0,54	0,010	0,001	0,88	0,17	0,14	0,17	
alyse [%] / Pro	duct analysis	[%] / Analyse	sur produit	[%				14	17/1/13	
Schmelzen-Nr.								20.0		
Heat No.	ပ	<u> </u>	ZZ	۵	S	CR	MO	Z	CO	
o de coulee										
598618	0,310	0,280	0,52	600'0	0,001	0,89	0,17	0,12	0,15	
nisse / Test resu	ults / Résultat	s des essais								
e wurden zers	tõrungsfrei	geprüft:		ET-test: acc	2. to ASTM	-A 450; E	T - Test me	thod: acc. t	o ASTM-E 309; for imperfections;	PASSED
are non destructiv	re tested:			ET-test: ET	with rotati	ng pancaki	e coils; acc	ording to El	V 10246-3; imperfections;	
om passé un essa	i non destruct	##	•	Notch dept width (max	h: 0,30 mn	n; notch w	idth < = n	otch depth;	notch length min. 2 x transducer	
Augensichtkontrolle:	,	PAS	3ED	Materialver	wechslung	sprüfung:	PA	SSED	Maßkontrolle:	PASSED
Visual inspection:				Material confc	armity test:				Dimensions examination:	
· lear				Vérification de	a la nuance:				Vérification des dimensions:	
	roduktanalyse [%] / Pro Pos. Schmelzen-Nr, tem Heat No. Poste No. de œulde 0003 598618  rüfergebnisse / Test rest Die Rohre wurden zers The tubes are non destructiv Les tubes ont passé un essa Augensichtkontrolle: Visual inspection: Examen visuel:	roduktanalyse [%] / Product analysis Pos. Schmelzen-Nr.  tam Heat No. C Poste No. de coulée  0003 598618 0,310  Trûfergebnisse / Test results / Résultat Die Rohre wurden zerstörungsfrei The tubes are non destructive tested: Les tubes ont passé un essal non destruct Augensichtkontrolle: Wisual inspection: Examen visuel:	Produktanalyse [%] / Product analysis [%] / Analyse Pos. Schmelzen-Nr.  Item Heat No. C SI  Poste No. de Daulée  0003 598618 0,310 0,280  Prüfergebnisse / Test results / Résultats des essais  Die Rohre wurden zerstörungsfrei geprüft:  The tubes are non destructive tested:  Les tubes ont passé un essai non destructif:  Augensichtkontrolle:  PASS Visual inspection:  Examen visuel:	alyse [%] / Product analysis [%] / Analyse sur produit [%] melzen-Nr.  at No.  C SI MN  The coulée  18618  18618  18618  2 wurden zerstörungsfrei geprüft:  In non destructive tested:  In passé un essal non destructif:  Atkontrolle:  PASSED  ection:  uel:	MN 0,52	alyse [%] / Product analysis [%] / Analyse sur produit [%]  at No.  C SI MN P S  C de coulée  18618  O, 310 O, 280 O, 52 O, 009 O, 001  Inisse / Test results / Résultats des essals  a wurden zerstörungsfrei geprüft:  Britest: ET with rotatii  mt passé un essal non destructif:  mt passé un essal non destructif:  PASSED Material conformity test:  Material conformity test:  Vérification de la nuance:  Vérification de la nuance:	alyse [%] / Product analysis [%] / Analyse sur produit [%]  at No.  C SI MN P S CR  Geoulée  18618  O, 310 0, 280 0, 52 0, 009 0, 001 0, 89  Inisse / Test results / Résultats des essals  a wurden zerstörungsfrei geprüft:  BT-test: ET with rotating pancake mt passé un essal non destructif:  ET-test: ET with rotating pancake mt passé un essal non destructif:  PASSED Material conformity test:  Material conformity test:  Weiffication de la nuance:  Vérification de la nuance:	State   Poduct analysis   Poduct at No.	14	P S CR MO NI  0,009 0,001 0,89 0,17 0,12  -test: acc. to ASTM-A 450; ET - Test method: acc. to the form; notch width <= notch depth; of mm; notch width <= notch depth; of mm (max. 50 mm)  terial conformity test: ferial conformity test: filtration de la nuance:

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probennahme erfolgte an Vielfachlängen. The sampling was carried out on multiple lengths. L'echantillonege etait realise aux longueurs multiples.

Benteler Steel/Tube GmbH Postfach 13 40

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Steel/Tube

4

3

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Prüf-Nr.: Inspection No.: No. du certificat 41-961797/001/P Dokument-Nr.: ABNAHMEPRÜFZEUGNIS EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1

Zugversuch längs bei R.T., Vollprobe / Tensile test longitudinal at RT, Full section test spacimen / Essai de traction longitudinale à TA, Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	ssung	Streckgrenze	Zugfestigkeit	Dehnung		
ftem	Specimen No.	Heat No.	Specimen dimensions	nsions	Yield strength	Tensile strength	Elongation		
Poste	No. de l'éprouv.	No. de coulée	Dimensions de l'éprouv.	l'éprouv.	Limite élastique	Résistance à la traction Allongement	n Atlongement		
Anforderungen	nngen				Rp 0,2 %	Rm	A2"	1. Formel	
Requirements	tts ·		шш		KS	KSI	*	1. Formula	
Exigences					MIN 75	WIN 95	MIN 12.00	1. Formule	
0003	100000	598618	19,05 X	1,25	120	128	18,00		
0003	000000	598618	19,05 X	1,25	120	128	18,00		
0003	000000	598618	19,05 X	1,25	118	127	18,00		
0003	900000	598618	X 50'61	1,25	120	128	18,00	•	
0003	900000	298618 //	19,05 X	1,25	118	DAS128	18,00		
						1			
Randentk	ohlung / Surface d	Randentkohlung / Surface decarbunzation / Décarburation superficielle	uration superficiell	le		1/1/7/ 68-6	2		

decarburization outside and inside max. 0.012 in, partial decarburization outside and inside max. 0,305 mm, without total acc. to AMS-6360, partial decarburization outside max. 0.009 in, partial decarburization inside max. 0.009 in, partial decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm

### Vermerk / Remark / Remarque

Pos. / Item / Poste: 0003

52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Certificate remarks: The steel grade corresponds to/MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA: Country of origin of the material and heat: Germany, Aircraft quality steel acc. to AMS 2301K; see appendix page 1 of 1

Pos. / Item / Poste: 0003

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Posts: 0003

Magnetic particle inspec.: acc. to AMS 2301K/ASTM-E 1444, on prematerial

Pos. / Item / Poste: 0003

Grain size; acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée: Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Benteler Steel/Tube GmbH Postfach 13 40

33043 Paderborn Deutschland ₽:

12

ABNAHMEPRÜFZEUGNIS EN 10204-3.1 Tel.: +49.5254.81-0 Fax: +49.5254.13666

INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: Document No.: No. du document:

41-961797/001/P

Prüf-Nr.: Inspection No.: No. du certificat:

BENTELER Steel/Tube

4/ Blatt: Page: Page:

Paderborn Schloß Neuhaus, 19.09.2016, TEL.: 05254.81-201765 FAX: 05254.81-201752

Abnahmebeauftragter Inspection representative

Es wird bestätigt, daß die geliefertan Ezsugnisse den tachn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohna Unterschrift rachtsglätig. We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature. Nous attestons que les produtts livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature. i.A. THOMAS GOLLAN / GUT

Benteler Steel/Tube GmbH Residenzstraße 1 33104 Радегроп

Germany Tel::49.5254.81-0 Fax: 49.5254.13868

Document No.: No. de document: Dokument-Nr.

> Inspection Certificate EN 10204.3.1 / appendix Certificat de réception EN 10204-3.1 / appendice

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang

41-961797/001/P

1 of 1

BENTELER 🛡

Steel/Tube

Blatt:

Page: Page:

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

Item Poste	Komgröße Grain size Grosseur de grain (ASTM-E 112)	Härtbarkeit (min Hardenability (m Trempabilité (, (ASTM	Härtbarkelt (min. Anforderungen) Hardenability (min. requirements) Trempabilité (exigence min.) (ASTM-A 255)	Magnetic parl Essai á la pou (AMS	Magnetic particle inspection Essai à la poudre magnétique (AMS 2301K)	Ess	Macrostructure test Essai de macrostructure (ASTM-E 381)	test ucture
	min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	тах. S 2	max. R 1	max. C 2
	o,	42	34	0,029	0,024	\$2	R1	C2
	Outside 0,000 mm	Inside 0,000 mm						,
							BETTELER	

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acler est libre des contaminations der mercury

Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752 Paderborn Schloß Neuhaus, 21.09.2016

Inspection representative **Abhahmebeauftragter** Contróleur

Thomas Gollan

Bentaler Steel/Tube GmbH 33043 Paderborn Postfach 13 40

Deutschland Tel.: +49,5254,81-0 Fax: +49,5254,13666

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Steel/Tube

Purchase Order No.: Kunden-Bestell-Nr.: Dokument-Nr.: No. du document: Document No.: Bentseler Stael/Tabe GmbH - Poetfach 1340 - 33043 Pederbom - Deutschland ÁBIJAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 The Aboretum, Suite 204 760 Constitution Drive EXTON PA 19341 USA EN 10204:2005-01 **rw Metals** 

16002429 TW M49316335 1600427 No. de commande du client: Benteler Auftrags-Nr.: Benteler Order No.:

4188698 No. de commande Bentefer: Versandanzeigen-Nr.: Dispatch Note No.:

TUBES D' ACIER SANS SOUDURE Produkt: NAHTLOSE STAHLROHRE SEAMLESS STEEL TUBES No. d'avis d'expédition: **Product:** Produit:

Marque du producteur: Manufacturer's brand:

Herstellerzeichen:

(DIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TUEV NORD CERT)

Warmrohrwerk/Zieherei

Manufacturer: Producteur: Hersteller:

No. du certificat: inspection No.:

Prüf-Nr.:

41-832030/002/P

(PED 97/23/EC CERTIFIED BY TUEV NORD SYSTEMS)

Page: Blatt: Page:

> ELEKTROSTAHL × Stamp of the inspection representative: Stempel des Abnahmabaauftragten: Stahlerschmelzungsverfahren: Poinçon du contrôleur:

**ELECTRIC FURNACE** Steelmaking process:
Procédé d'élaboration de l'acier: FOUR ELECTRIQUE

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type Lieferbedingungen: Conditions de livraison:

Maße - Toleranzen:

Terms of delivery:

Dimensions-tolerances: Dimensions-tolérances:

AMS 2253E-83, Aircraft Type, Seamless, Cold Finished

GRADE 4130, AMS 6360M and AMS 6371K 14 8

CHO.OK

田の

W METALS

S

ACCEPTED BY

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Delivery condition:

État de livraison:

Lieferzustand:

Nuance d'acier:

Stahlsorte: Steel grade:

FSD: BENTELER AMS-T-6736 B 1-MIL-T-6736 B 1- 4130 N HEAT-NO. CD AQ S DIMENSIONS WA GERMANY Produktkennzeichnung:

Marquage du produit:

Product marking:

AEZ = Átzrintebeschiftung, Etching ink matking, Gravure à l'encre . FK = Ferbiennzelchnung, colour marking, marquage per couleur . FS = Ferbiennance-ching, marquage par formance-ching, marquage per formance-ching, marquage per formance-ching, marquage sur écquette . PS = Prâgestempel, die stamp, marquage . TS = Tintenstrethbrung, they get sprey marking, marquage sur écquette . PS = Prâgestempel, die stamp, marquage per pointonnage . TS = Tintenstrethbrung, they get sprey marking, marquage sur écquette . PS = Prâgestempel, die stamp, marquage per pointonnage . TS = Tintenstrethbrung, they get sprey marking, marquage sur écquette . PS = Prâgestempel, die stamp, marquage per pointonnage . TS = Tintenstrethbrung, they get sprey marking, marquage sur écquette .

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.13666

BENTELER V

Steel/Tube

ABIVAHMEPRÜFZEUGNIS EN 10204-3, 1 INSPECTION CERTIFICATE EN 10204-3, 1 CERTIFICAT DE RECEPTION EN 10204-3, 1	Dokument-Nr.: Document No.: No. du document:	41-832030/002/P		Prūf-Nr.: Inspection No.: No. du certificat:		Blatt: 2 / 4 Page: Page:
	Länge Length Longueur feet	Gewicht Weight Poids Ibs	Schmelzen-Nr. Heat No. No. de coulée		Prüfdruck Rohr-NrGruppe Test pressure Tube number group Pression d'épreuve Série de no. des tubes	Vielfachlängen Muttiple lengths Longueurs multiples
0016 221 ( 0.750" 0.D. * 0.683" 9T	4335,89	2531	587359			

Schmelzenanalyse [%] / Nest analysis [%] / Analyse sur coules [%]

Item	Heat No.	ن	<u> </u>	Z	<b>a.</b>	us.	5	WO	Z	O)	
Poste	No. de coulée										TW METALS
1	0016 587359	0,320	0,260 0,56	0,56	900'0	0,006 0,001 0,88	0,88	0,17 0,13 0,13	0,13	0,13	E ILI
15	Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]	duct analysi	s [%] / Analys	e sur produit	[%]	5 -	J	101/12			S 007 09 2014 5
Pos.	Pos. Schmelzen-Nr. from Heat No. Poste No. de.coulée	ပ	75	MN	a	S	CR	MO	Z	ನಿ	ACCEPTED BY S
9100	587359	0,310	0,280	0,56	900'0	0,001	0,87	0,006 0,001 0,87 0,16 0,12 0,12	0,12	0,12	

Prüfergebnisse / Test results / Résultats des esseis

PASSED	PASSED
to ASTM-E 309; for imperfections; EN 10246-3; imperfections; r, notch length min. 2 x transducer	Maßkontrolle: Dimensions examination: Vérification des dimensions:
est method: acc. ls; according to < = notch depth	PASSED
ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections; ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections; Notch depth: 0,30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm)	Materialverwechslungsprüfung: Material conformity tast: Vérification de la nuence:
prüft:	PASSED
Die Rohre wurden zerstörungsfrei geprüft: The tubes are non destructive tested: Les tubes om passé un essei non destructif:	Augensichtkontrolle: Visual Inspection: Examen visual:

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probennahme erfolgte an Vielfachlängen. The sampling was carried out on multiple lengths. L'echantillonege stait realise aux longueurs multiples.

Benteler Steel/Tube GmbH Postfach 13 40

33043 Paderborn

Deutschland Tel.: +49.5254.81-0 Fax: +49.5254.13666

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Steel/Tube

4

3/

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Inspection No.: No. du certificat: Prüf-Nr.: 41-832030/002/P Dokument-Nr.: Document No.: No. du document: ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1

PSI MIN 75000 MIN 7500 M	9	Dehnung	Einschnürung
Rp 0,2 % PSI NIN 75000 NIN 75000 PSI NIN 103152 PSI NIN 103267	stique Résistance à la traction Allongement	Allongement	Area reduction Coefficient de striction
PSI MIN 75000 1,10 101817 1,10 104427 1,10 105152 1,10 103267	% Rm	A2" 1. Formel	
MIN 75000 1,10 101817 1,10 104427 1,10 105152 1,10 103267	PSI	% 1. Formula	
7,10 101817 7,10 104427 7,10 105152 7,10 103267 7,10 104572	00 WIN 95000	MIN 12.00 1. Formula	
,10 104427 ,10 105152 ,10 103267 ,10 104572	120381	20,00	
7,10 105152 7,10 103267 7,10 104572	120817	20,00	
0,10 103267	119801	20,00	TW ARCTAL
1,10 104572	121687	20,00	STATE STATES
	120962	20,00	4
Control (1971) Surface decarburgation / Decarburgation superficielle	14 12/1/1		S JE OF 30 F

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0016

contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M and AMS 6371K, material free from mercury

has been carried out, Country of origin of the material and heat: Germany; see appendix page 1 of 1

Pos. / Nem / Poste: 0016

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0016

Magnetic particle inspec.: acc. to AMS 2301 G/2640, on prematerial

Pos. / Itam / Poste: 0016

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales persone / Personne chargée: Mr Schwarz, Tel.: 05254 81-204311, Fax: 204388

Benteler Steel/Tube GmbH Postfach 13 40

33043 Paderborn Deutschland Tel.: +49.5254.81-0 Fax: +49.5254.13666

ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CENTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: Document No.: No. du document:

41-832030/002/P

Prüf-Nr.: Inspection No.: No. du certificat:

Steel/Tube

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muac pe S ACCEPTED BY W WETALS 3CT 6 5 7014 P W O P

Paderborn Schloß Neuhaus, 14.09.2014, TEL.: 05254.81-201767 FAX: 05254.81-201752

Abnahmebeauftragter Inspection representative

THOMAS GOLLAN / TEM Contrôleur

Es wird bestätigt, deß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen.Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig. We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature. Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

Germany Tel::49.5254.81-0 Fax: 49.5254.13665 Benteler Steel/Tube GmbH Residenzstraße 1 33104 Paderborn

Inspection Certificate EN 10204.3.1 / appendix Abnahmeprüfzeugnis EN 10204-3.1 / Anhang Certificat de réception EN 10204-3.1 / appendice

Document No.: No. de document: Dokument-Nr.

41-832030/002/P

Page: Blatt:

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Steel/Tube

1 of 1

de

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

test octure	max. C 2	C 5			
Macrostructure test Essai de macrostructure (ASTM-E 381)	max. R 1	R 1			A Line Smi
Ma Essa	max. S.2	\$2			A.
Magnetbulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301G / 2640J)	S max. 0,25	0,020		moca	<b>E</b> 9
Magnetic Magnetic part Essai à la pou (AMS 230	F max. 0,34	0,029	TW METALS	T 00T 0 9 2914	ACCEPTED BY
Härtbarkeit (min. Anforderungen) fardenability (min. requirements) Trempabilité (exigence min.) (ASTM-A 255)	J(8/16") min. 28 HRC	31			
Härtbarkeit (min Hardenability (mi Trempabilité (	J(5/16") min. 35 HRC	41		Inside 0,030 mm	
Korngröße Grain size Grosseur de grain (ASTM-E 112)	min. 5	10		Outside 0,000 mm Inside 0,030 mm	
Position Item Poste		016			
Schmelzen-Nr. Heat No. Coulée No.		587359		Decarburization Depth	

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Paderborn Schloß Neuhaus, 14.09.2014 Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752

Inspection representative Abnahmebeauftragter Contróleur

Thomas Gollan

### PLYNOUTH TUBE CO-usa® 212 Industrial Park Road, Eupora, Mississippi 39744

Fax: (662) 258-2075

PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS 143275 - 1 / 3

WORK ORDER A43275
HEAT NUMBER MM16101444
MELT SOURCE Nucor Steel USA Melt/Mfg

SHIP TO

TW Metals 27 Englehard Drive Monroe Township, NJ 08831 USA

Phone: (662) 258-2420

TS16949:2009

CUSTOMER P.O. CUSTO M 49354259 33364	OMER PART	<b>QU</b> 2,697.		187888	CERT ID / RE	08/15/2016
PART DESCRIPTION H10 OD: 1.0000" Max: 1.0050"	001200J002 Min: 0.9950" Min: 0.1080" RANDOM CUT LEN	GTH  DAS  14  9-89  7	101/13		TW METAL  E S AUG 2 2 2000  ACCEPTED 1	F P O R T T T T T T T T T T T T T T T T T T
CERTIFICATION REQUIREMENTS This material was Eddy Current test The Grain size is determined and re This raw material was magnetic par Frequency, and Severity to AMS 23 Yield is determined by using the 0.2	ted and conforms to the ported by the raw manufacted inspected by the 01, latest revision.			E-112. AMS 2640J and/o	r ASTM E-1444, and	rated as
		Chemical /	Analysis			
C Mn P	s si 005 .23	Cu Ni .17 .13	Cr   1.04 .2	Mo V 18 .0024	Ti Al .002 .023	Sn .007
.51 .55 .00		Physical Pi	operties			
Freq. Severity G	rain Size					
Fied. percent		Mechanical	Properties			
TEST Tensile Yield Elongation TEST	UNITS Psi Psi %	#TESTS 3 3 3 3	Properties  HIGH 107900 100500 21	LOW 105700 92100 20	AVERAGE 107133 97267 21	STD-DEV 1242 4521 1
TEST Tensile Yield Elongation TEST Decarb/OD	UNITS Psi Psi % RESI Pass	#TESTS 3 3 3 3	HIGH 107900 100500 21	105700 92100	107133 97267	1242 4521
TEST Tensile Yield Elongation TEST	UNITS Psi Psi %	#TESTS 3 3 3 3	HIGH 107900 100500	105700 92100	107133 97267 21	1242 4521 1
TEST Tensile Yield Elongation TEST Decarb/OD	UNITS Psi Psi % RESI Pass	#TESTS 3 3 3 3	HIGH 107900 100500 21	105700 92100	107133 97267	1242 4521

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

Quality Assurance

Date Printed: 08/15/2016



### PRODUCT CERTIFICATION

SALES ORDER - LINE / RLS 143275 - 1 / 3

WORK ORDER A43275 HEAT NUMBER MM16101444

MELT SOURCE Nucor Steel - USA Melt/Mfg

SHIP TO

TW Metals 27 Englehard Drive Monroe Township, NJ 08831 USA



 CUSTOMER P.O.
 CUSTOMER PART
 QUANTITY
 LADING NO
 CERT ID / REV
 CERT DATE

 M 49354259
 33364
 2,697.0 ft
 00087888
 01
 08/15/2016

PART DESCRIPTION

H10001200J002

Additional Specification(s)

AMS-T6736 B, AMS 6360M

This test report data is for the heat Chemistry Stated above. Drawn in the USA

End of Certification

Page 2 of 2

I certify that the results are a true and correct copy of the records prepared and maintained by Plymouth Tube Company, Eupora in compliance with the requirements of the cited specification. Chemistry is as reported by the Steel supplier. This test report cannot be reproduced or distributed except in full without the written permission of Plymouth Tube. Product free from hazardous materials.

Quality Assurance

Date Printed: 08/15/2016

Alcoa Forgings and Extrusions
Lafayette Operations
3131 East Main Street
Lafayette, IN
47905-7500

Alcoa, Inc.

Invoice To Customer
TW METALS INC
THE ARBORETUM SUITE 204 760 CONSTITUTION DR EXTON, PA - 19341

Ship To Customer
TW METALS INC
235 W. TUBEWAY
CAROL STREAM, IL - 60188

## Certified Inspection Report

		AEP1652838	Page 1/3
Sales Order Number	Customer P/O		Cert Print Date
Line			
1000333483 No. 4.1	49295465-001 / ITEM 43284	09-AUG-13	09-AUG-13

Rem Description	1 000 OD x 0.065 WALL		TALL STATE OF THE PARTY OF THE	AMS4082 REV P	AMS-WW-T-7006 REV B	CP49-7.4.2-005 REV 7 WW-T-700/6 REV F, AM2, NOT1		net the limits as shown on	
Item Description	x GO 000 1	144 IN 54	W/F 0.225	AMS4082 REV P	AMS-WW-T-700/6 RU	CP49-7.4.2 WW-T-700		Others Total have	
Date Shipped	08-AUG-13	Item No.	G03272119	Item No. Rev				COMPOSITION NOTE: The values for Others Each' and 'Others Total' have met the limits as shown on	this certified inspection report. Remainder is Aluminum.
Quantity Shipped	8T 977	B/L	2099248	Delivery 1D	8598850	Customer Part No	Notes	COMPOSITION NOTE: The	this certified inspection repo

Signature And Title inspected, and texted in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this centification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured,

Legal Statement

Assurance Dept.

Melissa Griffith Quality Control Manager

09-AUG-13

CHO OCH AUG 0'9 2013 **WWH** 

Onsortifier ner I of / Packages	A / Packages							-	
Cuantitudes per ex			MOU	Weight	ht			-	ENTED DVS
Package Number	Lot-Number	Coantity	_			240		ACC	ACCEPIED BI
G17-PKG608442	17800951	95	PCS	278	257	CAS	,		
G17-PKG608443	178(10951	95	PCS	278	257	4	1		
G17-PKG608446	17800951	16	PCS	284	262	8-88	41011		
	1						5		
Composition Limits	Tits of							-	
Allow	:3	Fig	Ca	_	Ma	Me	ت	Zn	1.1
Alloy	05 0		0.15			8.0 8.0	0.04	i	-
1909	0.0	20	0.40	0.15	15	1.2	0.35	0.25	0.15
W.T.K	0.0								

THE PART OF THE PA	Max	Alloy	Min	6061 Max	Composition Results	Heat / Cast / Lot	Number		
20.10	0.8	Others Each	9.00	0.05		Si Fe			-
	0.40	Others Total		0.15		Cu			71 10
	0.15					Mn		300	
	1:2					50 50			
0 40	0.35				•	5		9000	1 1 1 1
240	0.25					97		000	
31.0	0.13				i	-		000	

# Certified Inspection Report

	ss and Extrusions				Cert Number AEP1652838	Page 2/3	
	in Street	Sales Order Number	mber	Customer P/O		Cert Print Date	
ALCOA 47905-7500	Lafayette, IN 47905-7500	1000333483 No.	Line No. 4.1	4.1 49295465-001 / ITEM 43284	09-AUG-13	09-AUG-13	
Heat / Cast / Lot Number	Others Each			Others Total			ž.
							-1
6890-L23	**						- 1

Mechanical

Pronerty - Test Results	est Kesuits				
		Test Type	UTS-L	TYS-L	EL 4D-Long
		пом	KSI	KSI	PCT
		# of Tests			
Temper	Lot Number	Piece / Test ID	Results	Results	Results
Té	17800951	7-1	47.0	42.6	21.2

	lano				Max	eeme.
	Dimensional				Min	a
	Test Type	пом	# of Tests		Lot Number	SPECTIMITS
Other - Test Limits				Test	Temper	TK

	TW METALS a		000000000000000000000000000000000000000	ACCEPTED BYS	
Dimensional				Results	ď
	Test Type	МОЛ	# of Tests	Lot Number	17800951
Test Results					
Other -				Tenper	16



, e#



Cert Notes

Alcoa Forgings and Extrusions Lafayette Operations 3131 East Main Street Lafayette, IN 47905-7500

Fage 3/3 Cert Print Date 09-AUG-13	AEP1652838 09-AUG-13	4	Line No.	Sales Order Number Customer P/O Cert Print Date	
AEP1652838 09-AUG-13			4	Customer P/O	49295465-001 / ITEM 43284
Let Customer P/O 10 4.1 49295465-001 / ITEM 43284 (1)	ur Line Vo. 4.1	Line No.		Sales Order Nu	1000333483

Certified Inspection Report

Made in USA
The test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate.
The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

TW METALS R
E AUG 09 2013 R
ACCEPTED BYS S AUG 0.9 2013





### CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE

CUSTOMER PO NUMB	ER:	CUSTOM	ER PART NUMBER:	PRODUCT DESCRIPTION	N:	
M49321087-1		43284		Seamless Tube/Pi		
KAISER ORDER NUMB	ER: LINE ITEM:		SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
672356	001		11/11/2014	F00175873	6061	T6
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:
552.000·LB	205.000					12.000 FT
SHIP TO:	200.000			SOLD TO:		
TW METALS INC 27 ENGLEHARD EXIT 8A OFF NJ MONROE TWP,	DRIVE	SA		TW METALS INC 760 CONSTITUTI SUITE 204 EXTON, PA 1934	ON DRIVE	

### **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
		1	45.9	41.3	14.5	N/A	N/A	N/A
F00175873	0001	1	45.7	41.9	14.0	N/A	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

						-		Ti	Pb	Bi	Zr	Ea	Tot
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	TI	\$10	DI			
			0.10	0.15	1 20	0 25	0.25	0.15	NA	NA	NA	0.05	0.15
Maximum	0.80	0.70	0.40	0.15	1.20	0.33	0.25	0.13	222		NA	0.00	0.00
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA			
				06	. 95	.07	.05	.02	.00	.00	.00	.01	.02
D73667	.59	.30	.28	.06						.00	.00	. 01	.02
D73666	. 63	. 33	.26	.06	1.01	.08	.07	.02	.00	.00	.00		

### Applicable Requirements:

Description: OD: 1.000"; Wall: 0.065"; Round @ AMS-4082P AMS-WW-T-700/6B ASTM B210-12 WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.

### Miscellaneous Notes

MANUFACTURED IN USA (CHANDLER,AZ) MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).



Plant Serial: 00154697 Kaiser Order Number: 672356

Page 1 of 2

Line Item: 001





### **CERTIFIED TEST REPORT**

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Quince & Macnowski

Plant Serial: 00154697 Kaiser Order Number: 672356 Line Item: 001

Page 2 of 2

DATE:/ <del>?</del> _/	<u>C7</u>					to ted a
MATERIAL CERT REC'D:	141	12				.049u
QUANTITY RECEIVED	18	0				10454
QUANTITY INSPECTED:	_8	D				
QUANTITY REJECTED:				SHEET SI	ZE RECEIVED:	
DESCRIPTION	(Ch	CR eck		(	COMMENTS	
	Y	(V)				
SURFACE DAMAGE	(Y)	N				
CORRECT FINISH	Y	N				
CORROSION	(Y)	N				
CORRECT GRAIN DIRECTION	AX	N	304			
CORRECT MATERIAL CORRECT THICKNESS	M	N	0454	, )		
PHOTO REQUIRED	Y	(N <sub>2</sub>	-0124			
CORRECT MATERIAL	(Y)	N	ASTA	1 A213	AST.	M A269
CORRECT REF # TO LINK CERT	(Y)	N	HEAT	# 4X1	506712	
ORRECT MATERIAL IDENTFICATION	-	N	PISAU	TROS	TV040.0	49
CORRECT M# ON THE MATERIAL	18	N	M13/26	-69		
DOES THIS MATERIAL REQUIRE	<u> </u>	-				
ENGINEERING SIGN OFF	Υ	A				
DOES THIS REQUIRE AN		0				
EXTRUSION REPORT	Y	W				
CUT SAMPLE PIEC	E OF	MA	TERIAL AND F	PREFORM A		
			HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER REA	ADIN	G				
	t	esters	located in the Q	uality Office		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

INSPECTED BY:

DATE:

9-80

1/10	<i>T1.</i>	0000.0	045 PO	/ BATCH NO	34793	/1365
01			THICKNES THICKNES SHEET SIZ	SS ORDERED SS RECEIVED ZE ORDERED:	. 065 . bleb	
NCR Chec			С	OMMENTS		
Y/N)						
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/ /	_					
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Jr		000	10			
		·COD				
	4	1116	11-1-2	100/8	ASTM	B2410
	-	27	# 17X	00951		
	-	MILI	11/1/	DDO W.	065	
	_	11/2/10	5/26			
2	<del>\</del>	111.00	4			
Y	0					
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OF N	1 A T I	FRIAL AND I	PREFORM A	HARDNESS C	HECK.	
DE IV		RD RESULT	SBELOW			
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ING						
test	ters I	ocated in the (	Quality Office			
	VY VY (C) THE RESULT OF MERCHANGE	NCR Check Y/N) N N N N N N N N N N N N N N N N N N	NCR Check Y/N) N N N N N N N N N N N N N N N N N N	THICKNESS THICKNESS SHEET SIZE  NCR Check	THICKNESS ORDERED THICKNESS RECEIVED SHEET SIZE ORDERED: SHEET SIZE RECEIVED  NOR Check Y/N) N N N N N N N N N N N N N N N N N N	SHEET SIZE RECEIVED  SHEET SIZE RECEIVED  SHEET SIZE RECEIVED  COMMENTS  COM

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

MAIER	(IAL	- IVL	CEIFTIN			4
					- DATOU NO	34793/136
MATERIAL: M30	47	RD.	500 W, U3	5 PO	/ BATCH NO	3/ 7/3// 9
DATE: 17/	pil	12				
MATERIAL CERT REC'D:				THICKNES	S ORDERED:	.035
MATERIAL CERT REC'D:	14			THORNES	C DECEIVED.	.030
QUANTITY RECEIVED.	121	0				
QUANTITY INSPECTED:	21	)'				
QUANTITY DE JECTED:				SHEET SIZ	ERECEIVED	
QUANTITY REJECTED:						
	1					
		CR		C	OMMENTS	
DESCRIPTION	(Ch					
	-	N)				
SURFACE DAMAGE	Y	00				
CORRECT FINISH	(0)	N				
CORROSION	Y	N				
CORRECT GRAIN DIRECTION	(8)	N	3/14			
CORRECT MATERIAL	(0)	N	030			
CORRECT THICKNESS	Y	AL	10.00			16
PHOTO REQUIRED	(Y)	(R)	ASIM	4213	A571	1A269
CORRECT MATERIAL	100	N	HFAT	# 91	157153	
CORRECT REF # TO LINK CERT	-	N	M304	TROS	00 W D.	35
ORRECT MATERIAL IDENTFICATION	1/45	N	M13605	20%		
CORRECT M# ON THE MATERIAL	10/					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(ND)				
	1					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)				
EXTROSIONALION						
			THE PLANTS PLANTS	DEEORM A I	JARDNESS (	CHECK
CUT SAMPLE PIEC	E OF	MAT	ERIAL AND P	REFORMAT	711101100	
		RECU	RD RESULTS	HRB	DUR A	DUR D
			HRC	11110		
TYPE OF MATERIAL		-				
SIZE OF TEST SAMPLE	0 DIN					
HARDNESS / DUROMETER RE	ADIN	44.00	located in the Qu	ality Office		
	Ī	esters	ocated in the qu			
						CICNOFE UI requirer
- WORESTION				€	NGINEERING	SIGNOFF (if required
C 18 INSPECTION						
14				SIGNED	OFF BY:	
INSPECTED BY:	1	2			DATE:	
DATE: 17/0	1//	2_			U11.121	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SURFACE DAMAGE CORRECT FINISH	Y	Z	
CORROSION	Y	1	
CORRECT GRAIN DIRECTION	(8)	N	
COPPECT MATERIAL	10	N	4/30
CORRECT THICKNESS	(V)	N	.645
PHOTO REQUIRED	Y	(1)	7.337
CORRECT MATERIAL	(3)	N	MIL-T-6-360110
ORRECT REF # TO LINK CERT	(2)	Ν	HFAT# 598618
RECT MATERIAL IDENTFICATION	8	N	M4136 NTO. 750W.049
DRRECT M# ON THE MATERIAL	(8)	N	M136569
ORRECT WIF ON THE WATERIAL BEOLIBE	1		
OES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Ab)	
		12	
DOES THIS REQUIRE AN	Υ	N	
EXTRUSION REPORT	Ţ	العنا	

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: 9-89	SIGNED OFF BY:
DATE: 17/0//13	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL <u>M413</u> 6 DATE: 1746	1/13	750W.L	083 PC	) / BATCH NO	34793/1	-SQ.5
MATERIAL CERT REC'D  QUANTITY RECEIVED  QUANTITY INSPECTED  QUANTITY REJECTED:		19.5'	SHEET SI	ZE ORDERED	.683 -683	
DESCRIPTION	NCR (Check Y/N)		C	OMMENTS		
SURFACE DAMAGE  CORRECT FINISH  CORROSION  CORRECT GRAIN DIRECTION  CORRECT MATERIAL  CORRECT THICKNESS  PHOTO REQUIRED  CORRECT MATERIAL  CORRECT MATERIAL  CORRECT MATERIAL  CORRECT METERIAL  CORRECT MATERIAL IDENTFICATION  CORRECT M# ON THE MATERIAL  DOES THIS MATERIAL REQUIRE  ENGINEERING SIGN OFF  DOES THIS REQUIRE AN  EXTRUSION REPORT		4131 -083 MCL- HEAT MU13 M136	7-673 # 537 0.070.7	Solvios	33	
CUT SAMPLE PIEC	E OF MA	ORD RESUL	PREFORM A TS BELOW HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE HARDNESS / DUROMETER REA	ADING	rs located in the	Quality Office			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

DAS

14

QC 18 INSPECTION

INSPECTED BY:

MATERIAL: 19413 DATE: 17  MATERIAL CERT REC'D: QUANTITY RECEIVED QUANTITY INSPECTED: QUANTITY REJECTED:	700	24		THICKNES THICKNES SHEET SI	ZE ORDERED	120	
DESCRIPTION	(Ch	CR eck		С	OMMENTS		
SURFACE DAMAGE	Y	Ay					
CORRECT FINISH	8	N					
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	(X)	N	U/3/				
CORRECT MATERIAL	(V)	N	117				
CORRECT THICKNESS	Y	R					
PHOTO REQUIRED	18	N	MILL-	T-6731	2	17	
CORRECT MATERIAL	(1)	N	HEAT	# MM	1610144	9	
CORRECT REF # TO LINK CERT		N	194130	NT1.00	DW.120	)	
DRRECT MATERIAL IDENTFICATION	A	N	111365	569			
CORRECT M# ON THE MATERIAL	1/						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	R					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	0					
CUT SAMPLE PIEC	FOF	MA	FERIAL AND P	REFORM A	HARDNESS (	CHECK.	
COTSAMFEETIES		REC	ORD RESULTS	PELOVA		DURD	
			HRC	HRB	DUR A	DOILD	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER REA	ADIN	G		0.00		<u> </u>	
17777	<u>t</u>	esters	located in the Qu	iality Office			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

INSPECTED BY:



Tel: 613 632 9577 Fax: 613 632 1053

### PURCHASE ORDER

### Purchase Order ID PO34793

Purchase Order Date 1/4/2017 PO Print Date 1/4/2017

Page Number 1 of 4

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

JAN 0 2 2017

EMAILED

**Contact Name** 

**Vendor Phone** 

**Ship To Contact** 

**Ship To Phone** 

585 768 5600

YRC COLLECT

Buyer

Chantal Lavoie

700 3000

Customer POID
Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

**FOB** 

FCA - (Free Carrier)

Ship Via: Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.500W.035	304 RD Tube .500 x .035W	1/12/2017 Yes	24.00 f	\$1.50	\$36.00
	MATERIAL: AISI 304/316 SA SI AS PER ASTM A213 OR AMSE		1/12/2017	Soft		

2 M304TR0.500W.049~

304 RD Tube .500 x .049W

1/12/2017 Yes 84.00

\$2.80

1

1/12/2017

50 H

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

\ \ Line Total:

Line Total:

\$235.20

\$36.00

\$235.20

Note:



Tel: 613 632 9577 Fax: 613 632 1053

### PURCHASE ORDER

### Purchase Order ID PO34793

Purchase Order Date 1/4/2017 PO Print Date 1/4/2017

Page Number 2 of 4

Order From:

TW METALS PO BOX 933014

ALTANTA, GA 31193-3014

US

VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

**Contact Name** 

**Vendor Phone** 

585 768 5600

**Ship To Contact** 

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

M4130NT0.750W.049

4130 RD Tube .750

x.049W

Yes 1/12/2017

1/12/2017

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361

6362/6373/6374

Buyer

**Customer POID** 

Customer Tax #

Net 30 Terms

Currency

**FOB** 

USD

10127-2607

Chantal Lavoie

FCA - (Free Carrier)

20.00

20.00

\$6.00

\$120.00

M4130NT0.750W.083

4130 RD Tube .750 x.083W

1/12/2017

Yes

1/12/2017

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361

6362/6373/6374

Line Total:

\$120.00

\$3.85

\$77.00

017-01-11

Line Total:

\$77.00

Note:



Tel: 613 632 9577 Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO34793

Purchase Order Date 1/4/2017 PO Print Date 1/4/2017

Page Number 3 of 4

Order From:

TW METALS PO BOX 933014

ALTANTA, GA 31193-3014

US

VU-TWM001

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

Contact Name

**Vendor Phone** 

Ship To Contact

Ship To Phone

585 768 5600

YRC COLLECT

**Customer POID** 

Chantal Lavoie

Buyer

Customer Tax #

10127-2607

Terms Currency Net 30 USD

**FOB** 

FCA - (Free Carrier)

Ship Via: Ship Acct:

M4130NT1.000W.120

4130 RD Tube 1.00 x .120wall

1/12/2017

20.00

\$2.75

\$55.00

1/12/2017

Yes

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361

6362/6373/6374

Line Total:

\$55.00

M6061T6T1.000W065

6061T6 RD TUBE 1.00 x

.065w

1/12/2017

Yes

1/12/2017

\$2.96

\$59.20

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR

ASTM B241

\$59.20

Note:



Tel: 613 632 9577 Fax: 613 632 1053

### PURCHASE ORDER

### Purchase Order ID PO34793

Purchase Order Date 1/4/2017 PO Print Date 1/4/2017

Page Number 4 of 4

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US

VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

**Contact Name** 

Vendor Phone

585 768 5600

**Ship To Contact** 

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

71401-45

PROCUREMENT QUALITY CLAUSES 1/12/2017

No

1/12/2017

Procurement Quality Clauses

A016 personnel qualification

A017 raw material identification

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Buyer

Chantal Lavoie

**Customer POID** 

Customer Tax# 10127-2607 Net 30 Terms

USD Currency

FOB

FCA - (Free Carrier)

1.00

\$0.00

\$0.00

A005 right of entry

A012 chemical and physical test report

Line Total:

\$0.00

PO Total:

7-01-11

\$582.40

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.